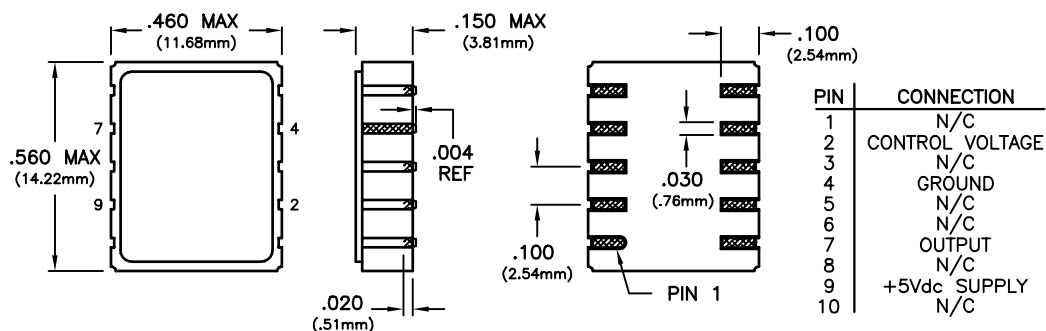


CRYSTAL CONTROLLED OSCILLATORS

AURORA, IL 60505
PHONE (630) 851-4722
FAX (630) 851-5040
www.conwin.com

HCMOS VCXO SURFACE MOUNT OSCILLATORS

SPECIFICATIONS		VSH51***	VSH52***	VSH53***	VSH54***
Frequency Range		125KHz to 33MHz			
Frequency Stability		±25ppm	±50ppm	±100ppm	±20ppm
Temperature Range		0°C to +70°C			
Output	Waveform	HCMOS Squarewave			
	Load	15pF			
	Voltage	Voh	4.50V Minimum		
		Vol	0.40V Maximum		
	Current	Ioh	-4mA		
		Iol	4mA		
	Duty Cycle	45/55 Maximum Measured @2.5Vdc			
	Rise/Fall Time	6nS Maximum			
	Jitter (RMS)	10pS Maximum			
Frequency Control		Control Voltage Code *-(add to model number)			
		0	0.5 to 4.5Vdc	Positive Transfer Characteristic	
		1	0.0 to 5.0Vdc		
		Deviation Code *-(add to model number)			
		12	100 (±50ppm Minimum)		
		15	150 (±75ppm Minimum)		
		16	160 (±80ppm Minimum)		
		22	200 (±100ppm Minimum)		
		32	300 (±150ppm Minimum)		
		Center Frequency	2.5Vdc ±0.5Vdc		
Monotonic Linearity		< ±10%			
Input Impedance		≥50K ohm at ≤10KHz			
Modulation Bandwidth		≥15KHz			
Supply Voltage		+5Vdc ±5%			
Supply Current		30mA Maximum			
Package		Hermetically sealed, leadless ceramic package			
Optional Suffix		T	Duty Cycle 45/55 Maximum Measured @1.4Vdc		



HCMOS VCXO SURFACE MOUNT OSCILLATORS

EXAMPLE MODEL NUMBER:

V S H 5 1 0 1 2 / 4 4 . 7 3 6 M H z

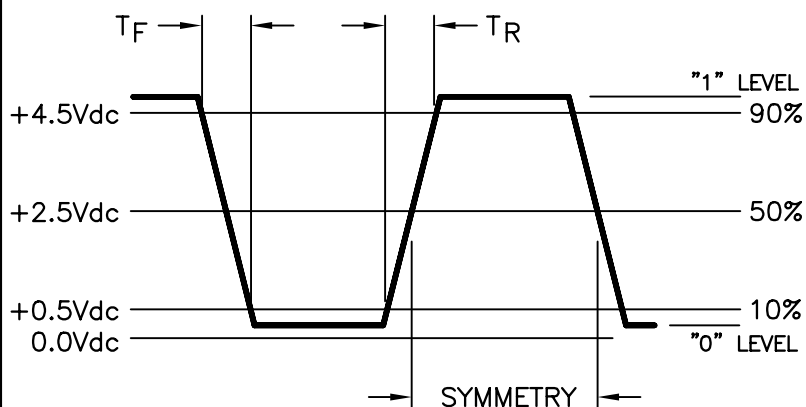
SURFACE MOUNT
VCXO SERIES

CENTER FREQUENCY

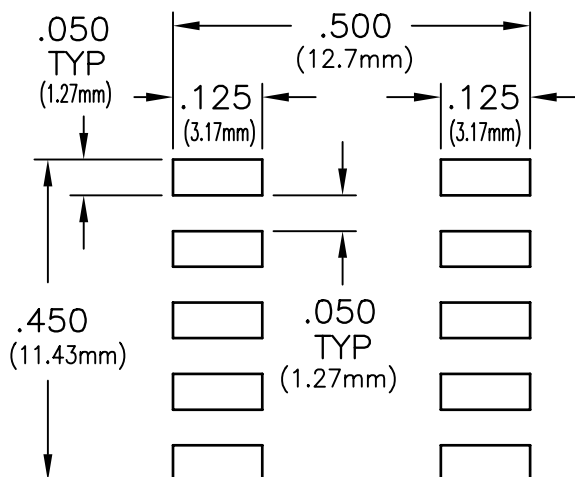
CONTROL VOLTAGE
0.5 to 4.5Vdc

MINIMUM DEVIATION OF
 ± 50 ppm OVER
CONTROL VOLTAGE RANGE

OUTPUT WAVEFORM



SUGGESTED PAD LAYOUT



TEST CIRCUIT

